

Government College Satnali, Mahendergarh

Lesson Plan (2021-22), Even Semester

Name of Assistant Professor: Dr. Ashish

Class: B.Sc 1st Year (2nd Semester)

Subject: Number Theory and Trigonometry

S. N.	Weeks	Topics
1.	1 st -Week, 21.03.2022 to 6.03.2022	Divisibility, G.C.D. (Greatest common divisors), L.C.M. (Least common multiple) Primes
2.	2 nd -Week, 28.03.2022 to 2.04.2022	Fundamental Theorem of Arithmetic
3.	3 rd -Week, 04.04.2022 to 9.04.2022	Linear Congruence's, Fermat's theorem. Wilson's theorem and its converse.
4.	4 th -Week, 11.04.2022 to 16.04.2022	Linear Diophantine equations in two variables
5.	5 th -Week, 18.04.2022 to 23.04.2022	Complete residue system and reduced residue system modulo m. Euler's ϕ function Euler's generalization of Fermat's theorem.
6.	6 th -Week, 25.04.2022 to 30.04.2022	Chinese Remainder Theorem. Quadratic residues.
7.	7 th -Week, 02.05.2022 to 07.05.2022	Legendre symbols. Lemma of Gauss; Gauss reciprocity law. Greatest integer function $[x]$.
8.	8 th -Week, 09.05.2022 to 14.05.2022	The number of divisors and the sum of divisors of a natural number n (The functions $d(n)$ and $\sigma(n)$).
9.	9 th -Week, 16.05.2022 to 21.05.2022	Moebius function and Moebius inversion formula.
10.	10 th -Week, 23.05.2022 to 28.05.2022	De Moivre's Theorem and its Applications.
11.	11 th -Week, 30.5.2022 to 04.06.2022	Expansion of trigonometrical functions.
12.	12 th -Week, 06.6.2022 to 11.06.2022	Direct circular and hyperbolic functions and their properties.
13.	13 th -Week, 13.6.2022 to 18.06.2022	Inverse circular and hyperbolic functions and their properties.
14.	14 th -Week, 20.6.2022 to 25.06.2022	Logarithm of a complex quantity.
15.	15 th -Week, 27.6.2022 to 02.07.2022	Gregory's series. Summation of Trigonometry series.
16.	16 th -Week, 04.7.2022 to 09.07.2022	Revision & Test
17.	17 th -Week, 11.7.2022 to Onwards	Examination Started

Government College Satnali, Mahendergarh

Lesson Plan (2021-22), Even Semester

Name of Assistant Professor: Dr. Ashish

Class: B.Sc 2nd Year (4th Semester)

Subject: Special Functions and Integral Transforms

S. N.	Weeks	Topics
1.	1 st -Week, 21.03.2022 to 26.03.2022	Series solution of differential equations-Power series method
2.	2 nd -Week, 28.03.2022 to 02.04.2022	Definitions of Beta and Gamma functions
3.	3 rd - Week, 04.04.2022 to 09.04.2022	Bessel equation and its solution: Bessel functions and their properties-Convergence, recurrence
4.	4 th -Week, 11.04.2022 to 16.04.2022	Relations and generating functions, Orthogonality of Bessel functions.
5.	5 th -Week, 18.04.2022 to 23.04.2022	Legendre and Hermite differentials equations and their solutions
6.	6 th -Week, 25.04.2022 to 30.04.2022	Legendre and Hermite functions and their properties-Recurrence Relations and generating functions
7.	7 th -Week, 02.05.2022 to 07.05.2022	Orthogonality of Legendre and Hermite polynomials.
8.	8 th -Week, 09.05.2022 to 14.05.2022	(Rodrigues' Formula for Legendre & Hermite Polynomials, Laplace Integral Representation of Legendre polynomial.
9.	9 th -Week, 16.05.2022 to 21.05.2022	Laplace Transforms - Existence theorem for Laplace transforms, Linearity of the Laplace transforms
10.	10 th -Week, 23.05.2022 to 28.05.2022	Shifting theorems, Laplace transforms of derivatives and integrals, Differentiation and integration of Laplace transforms
11.	11 th -Week, 30.5.2022 to 04.06.2022	Convolution theorem, Inverse Laplace transforms, convolution theorem, Inverse Laplace transforms of derivatives and integrals
12.	12 th -Week, 06.6.2022 to 11.06.2022	solution of ordinary differential equations using Laplace transform.
13.	13 th -Week, 13.6.2022 to 18.06.2022	Fourier transforms: Linearity property, Shifting, Modulation
14.	14 th -Week, 20.6.2022 to 25.06.2022	Convolution Theorem, Fourier Transform of Derivatives, Relations between Fourier transform and Laplace transform
15.	15 th -Week, 27.6.2022 to 02.07.2022	Parseval's identity for Fourier transforms, solution of differential Equations using Fourier Transforms.
16.	16 th -Week, 04.7.2022 to 09.07.2022	Revision & Test
17.	17 th -Week, 11.7.2022 to Onwards	Examination Started

Government College Satnali, Mahendergarh

Lesson Plan (2021-22), Even Semester

Name of Assistant Professor: Dr. Ashish

Class: B.Sc 3rd Year (6th Semester)

Subject: Linear Algebra

S. N.	Weeks	Topics
1.	1 st -Week, 21.03.2022 to 26.03.2022	Vector spaces, subspaces, Sum and Direct sum of subspaces, Linear span, Linearly Independent and dependent subsets of a vector space
2.	2 nd -Week, 28.03.2022 to 02.04.2022	finitely generated vector space, Existence theorem for basis of a finitely generated vector space
3.	3 rd - Week, 04.04.2022 to 09.04.2022	Finite dimensional vector spaces, Invariance of the number of elements of basis sets
4.	4 th -Week, 11.04.2022 to 16.04.2022	Dimensions, Quotient space and its dimension.
5.	5 th -Week, 18.04.2022 to 23.04.2022	Homomorphism and isomorphism of vector spaces
6.	6 th -Week, 25.04.2022 to 30.04.2022	Linear transformations and linear forms on vector spaces, Vector space of all the linear transformations
7.	7 th -Week, 02.05.2022 to 07.05.2022	Dual Spaces, Bidual spaces, annihilator of subspaces of finite dimensional vector spaces.
8.	8 th -Week, 09.05.2022 to 14.05.2022	Null space, Range space of a linear transformation, Rank and Nullity Theorem ⁴
9.	9 th -Week, 16.05.2022 to 21.05.2022	Algebra of Linear Transformation, Minimal Polynomial of a linear transformation,
10.	10 th -Week, 23.05.2022 to 28.05.2022	Singular and non-singular linear transformations, Matrix of a linear transformation,
11.	11 th -Week, 30.5.2022 to 04.06.2022	Change of basis, Eigen values and Eigen vectors of linear transformations.
12.	12 th -Week, 06.6.2022 to 11.06.2022	Inner product spaces, Cauchy-Schwarz inequality
13.	13 th -Week, 13.6.2022 to 18.06.2022	Orthogonal vectors, Orthogonal complements, Orthogonal sets and Basis
14.	14 th -Week, 20.6.2022 to 25.06.2022	Bessel's inequality for finite dimensional vector spaces, Gram-Schmidt Orthogonalization process
15.	15 th -Week, 27.6.2022 to 02.07.2022	Adjoint of a linear transformation and its properties, Unitary linear transformations
16.	16 th -Week, 04.7.2022 to 09.07.2022	Revision & Test
17.	17 th -Week, 11.7.2022 to Onwards	Examination Started

Lesson Plan (2021-22)

Name of the Assistant/Associate Professor : Sh. Amit Kumar

Class and Section: B.Sc.1st

Paper: Ordinary Differential Equations

Semester: 2nd

Week	Date	Topics
Week 1	21-03-2022	Geometrical meaning of a differential equation
	22-03-2022	Exact differential equations
	23-03-2022	Continue
	24-03-2022	integrating factors
	25-03-2022	Continue
	26-03-2022	First order higher degree equations solvable for x,y,p Lagrange's equations
Week 2	28-03-2022	Continue
	29-03-2022	Continue
	30-03-2022	Clairaut's equations
	31-03-2022	Continue
	01-04-2022	Continue
	02-04-2022	Equation reducible to Clairaut's form
Week 3	04-04-2022	Continue
	05-04-2022	Continue
	06-04-2022	Singular solutions
	07-04-2022	Continue
	08-04-2022	Continue
	09-04-2022	Test
Week 4	11-04-2022	Orthogonal trajectories: in Cartesian coordinates and polar coordinates
	12-04-2022	Continue
	13-04-2022	Self orthogonal family of curves
	14-04-2022	Continue
	15-04-2022	Linear differential equations with constant coefficients
	16-04-2022	Continue
Week 5	18-04-2022	Homogeneous linear ordinary differential equations.
	19-04-2022	Continue
	20-04-2022	Equations reducible to homogeneous linear ordinary differential equations.
	21-04-2022	Continue
	22-04-2022	Continue
	23-04-2022	Test
Week 6	25-04-2022	Linear differential equations of second order: Reduction to normal form
	26-04-2022	Continue
	27-04-2022	Continue
	28-04-2022	Transformation of the equation by changing the dependent variable/ the independent variable
	29-04-2022	Continue
	30-04-2022	Continue
Week 7	02-05-2022	Solution by operators of non-homogeneous linear differential equations
	03-05-2022	Continue
	04-05-2022	Continue
	05-05-2022	Reduction of order of a differential equation
	06-05-2022	Continue
	07-05-2022	Continue
Week 8	09-05-2022	Continue
	10-05-2022	Method of variations of parameters
	11-05-2022	Continue
	12-05-2022	Continue
	13-05-2022	Method of undetermined coefficients
	14-05-2022	Continue

Week 9	16-05-2022	Test
	17-05-2022	Ordinary simultaneous differential equations
	18-05-2022	Continue
	19-05-2022	Continue
	20-05-2022	Solution of simultaneous differential equations involving operators x (d/dx) or t (d/dt) etc
	21-05-2022	Continue
Week 10	23-05-2022	Simultaneous equation of the form $dx/P = dy/Q = dz/R$. Total differential equations
	24-05-2022	Continue
	25-05-2022	Continue
	26-05-2022	Condition for $Pdx + Qdy + Rdz = 0$ to be exact
	27-05-2022	Continue
	28-05-2022	Continue
Week 11	30-05-2022	Continue
	31-05-2022	General method of solving $Pdx + Qdy + Rdz = 0$ by taking one variable constant
	01-06-2022	Continue
	02-06-2022	Continue
	03-06-2022	Continue
	04-06-2022	Continue
Week 12	06-06-2022	Method of auxiliary equations.
	07-06-2022	Continue
	08-06-2022	Continue
	09-06-2022	Continue
	10-06-2022	Continue
	11-06-2022	Test
Week13	13-06-2022	Revision
	14-06-2022	Revision
	16-06-2022	Assignment
	17-06-2022	Revision
	18-06-2022	Revision
Week 14	20-06-2022	Revision
	21-06-2022	Test
	22-06-2022	Assignment
	23-06-2022	Revision
	24-06-2022	Test
	25-06-2022	Revision
Week 15	27-06-2022	Revision
	28-06-2022	Revision
	29-06-2022	Assignment
	30-06-2022	Revision
	01-07-2022	Revision
	02-07-2022	Revision
Week 16	04-07-2022	Test
	05-07-2022	Revision
	06-07-2022	Revision
	07-07-2022	Revision
	08-07-2022	Revision
	09-07-2022	Revision

Lesson Plan (2021-22)

Name of the Assistant/Associate Professor : Sh. Amit Kumar

Class and Section: B.Sc. 2nd

Semester: 4th

Paper: Programming in C and Numerical Methods

Week	Date	Topics
Week 1	21-03-2022	Programmer's model of a computer
	22-03-2022	Continue
	23-03-2022	Continue
	24-03-2022	Algorithms
	25-03-2022	Continue
	26-03-2022	Continue
Week 2	28-03-2022	Continue
	29-03-2022	Flow charts
	30-03-2022	Continue
	31-03-2022	Data types
	01-04-2022	Continue
	02-04-2022	Continue
Week 3	04-04-2022	Operators and expressions
	05-04-2022	Continue
	06-04-2022	Continue
	07-04-2022	Input / outputs functions
	08-04-2022	Continue
	09-04-2022	Continue
Week 4	11-04-2022	Test
	12-04-2022	Decisions control structure: Decision statements
	13-04-2022	Continue
	14-04-2022	Continue
	15-04-2022	Logical and conditional statements
	16-04-2022	Continue
Week 5	18-04-2022	Continue
	19-04-2022	Implementation of Loops
	20-04-2022	Continue
	21-04-2022	Continue
	22-04-2022	Switch Statement & Case control structures
	23-04-2022	Continue
Week 6	25-04-2022	Continue
	26-04-2022	Functions
	27-04-2022	Continue
	28-04-2022	Continue
	29-04-2022	Preprocessors and Arrays.
	30-04-2022	Continue
Week 7	02-05-2022	Continue
	03-05-2022	Test
	04-05-2022	Strings: Character Data Type
	05-05-2022	Continue
	06-05-2022	Standard String handling Functions
	07-05-2022	Continue
Week 8	09-05-2022	Arithmetic Operations on Characters.
	10-05-2022	Continue
	11-05-2022	Structures: Definition, using Structures, use of Structures in Arrays and Arrays in Structures
	12-05-2022	Continue
	13-05-2022	Continue
	14-05-2022	Pointers: Pointers Data type, Pointers and Arrays, Pointers and Functions

Week 9	16-05-2022	Continue
	17-05-2022	Continue
	18-05-2022	Continue
	19-05-2022	Solution of Algebraic and Transcendental equations: Bisection method
	20-05-2022	Continue
	21-05-2022	Regula-Falsi method
Week 10	23-05-2022	Continue
	24-05-2022	Secant method
	25-05-2022	Continue
	26-05-2022	Newton-Raphson's method.
	27-05-2022	Continue
	28-05-2022	Newton's iterative method for finding pth root of a number
Week 11	30-05-2022	Continue
	31-05-2022	Continue
	01-06-2022	Order of convergence of above methods
	02-06-2022	Continue
	03-06-2022	Continue
	04-06-2022	Test
Week 12	06-06-2022	Simultaneous linear algebraic equations
	07-06-2022	Continue
	08-06-2022	Continue
	09-06-2022	Gauss-elimination method
	10-06-2022	Continue
	11-06-2022	Continue
Week13	13-06-2022	Gauss-Jordan method
	14-06-2022	Continue
	16-06-2022	Continue
	17-06-2022	Triangularization method (LU decomposition method).
	18-06-2022	Continue
Week 14	20-06-2022	Continue
	21-06-2022	Crout's method
	22-06-2022	Continue
	23-06-2022	Cholesky Decomposition method.
	24-06-2022	Continue
	25-06-2022	Iterative method, Jacobi's method
Week 15	27-06-2022	Continue
	28-06-2022	Gauss-Seidal's method
	29-06-2022	Continue
	30-06-2022	Relaxation method.
	01-07-2022	Continue
	02-07-2022	Test
Week 16	04-07-2022	Assignment
	05-07-2022	Revision
	06-07-2022	Revision
	07-07-2022	Revision
	08-07-2022	Revision
	09-07-2022	Revision

Lesson Plan (2021-22)

Name of the Assistant/Associate Professor : Sh. Amit Kumar

Class and Section: B.Sc. 3rd

Paper: Real and Complex Analysis

Semester: 6th

Week	Date	Topics
Week 1	21-03-2022	Jacobians
	22-03-2022	Continue
	23-03-2022	Continue
	24-03-2022	Beta and Gama functions
	25-03-2022	Continue
	26-03-2022	Continue
Week 2	28-03-2022	Continue
	29-03-2022	Double and Triple integrals
	30-03-2022	Continue
	31-03-2022	Continue
	01-04-2022	Continue
	02-04-2022	Dirichlets integrals
Week 3	04-04-2022	Continue
	05-04-2022	Continue
	06-04-2022	change of order of integration in double integrals.
	07-04-2022	Continue
	08-04-2022	Continue
	09-04-2022	Continue
Week 4	11-04-2022	Test
	12-04-2022	Fourier's series
	13-04-2022	Continue
	14-04-2022	Continue
	15-04-2022	Continue
	16-04-2022	Fourier expansion of piecewise monotonic functions
Week 5	18-04-2022	Continue
	19-04-2022	Continue
	20-04-2022	Properties of Fourier Coefficients
	21-04-2022	Continue
	22-04-2022	Continue
	23-04-2022	Dirichlet's conditions
Week 6	25-04-2022	Continue
	26-04-2022	Continue
	27-04-2022	Parseval's identity for Fourier series
	28-04-2022	Continue
	29-04-2022	Continue
	30-04-2022	Fourier series for even and odd functions
Week 7	02-05-2022	Continue
	03-05-2022	Continue
	04-05-2022	Half range series
	05-05-2022	Continue
	06-05-2022	Continue
	07-05-2022	Change of Intervals
Week 8	09-05-2022	Continue
	10-05-2022	Continue
	11-05-2022	Test
	12-05-2022	Extended Complex Plane
	13-05-2022	Continue
	14-05-2022	Continue
Week 9	16-05-2022	Stereographic projection of complex numbers

	17-05-2022	Continue
	18-05-2022	Continue
	19-05-2022	continuity and differentiability of complex functions
	20-05-2022	Continue
	21-05-2022	Continue
Week 10	23-05-2022	Analytic functions
	24-05-2022	Continue
	25-05-2022	Continue
	26-05-2022	Analytic functions
	27-05-2022	Continue
	28-05-2022	Continue
Week 11	30-05-2022	Harmonic functions
	31-05-2022	Continue
	01-06-2022	Continue
	02-06-2022	Test
	03-06-2022	Mappings by elementary functions
	04-06-2022	Continue
Week 12	06-06-2022	Continue
	07-06-2022	Translation
	08-06-2022	Continue
	09-06-2022	Continue
	10-06-2022	rotation
	11-06-2022	Continue
Week13	13-06-2022	Continue
	14-06-2022	Magnification and Inversion
	16-06-2022	Continue
	17-06-2022	Continue
	18-06-2022	Conformal Mappings
Week 14	20-06-2022	Continue
	21-06-2022	Mobius transformations
	22-06-2022	Continue
	23-06-2022	Fixed pointsCross ratio
	24-06-2022	Continue
	25-06-2022	Continue
Week 15	27-06-2022	nverse Points and critical mappings.
	28-06-2022	Continue
	29-06-2022	Continue
	30-06-2022	Test
	01-07-2022	Assignment
	02-07-2022	Assignment
Week 16	04-07-2022	Test
	05-07-2022	Revision
	06-07-2022	Revision
	07-07-2022	Revision
	08-07-2022	Revision
	09-07-2022	Revision

Lesson Plan (2021-22)

Name of the Assistant/Associate Professor : Dr. Ritu

Class and Section: B.Sc. 1st

Paper: Vector Calculus

Semester: 2nd

Week	Date	Topics
Week 1	21-03-2022	Scalar and vector product of three vectors
	22-03-2022	Continue
	23-03-2022	Continue
	24-03-2022	product of four vectors
	25-03-2022	Continue
	26-03-2022	Continue
Week 2	28-03-2022	Reciprocal vectors
	29-03-2022	Continue
	30-03-2022	Continue
	31-03-2022	Vector differentiation
	01-04-2022	Continue
	02-04-2022	Continue
Week 3	04-04-2022	Scalar Valued point functions
	05-04-2022	Continue
	06-04-2022	Continue
	07-04-2022	vector valued point functions
	08-04-2022	Continue
	09-04-2022	Continue
Week 4	11-04-2022	derivative along a curve
	12-04-2022	Continue
	13-04-2022	Continue
	14-04-2022	directional derivatives
	15-04-2022	Continue
	16-04-2022	Continue
Week 5	18-04-2022	Test
	19-04-2022	Gradient of a scalar point function
	20-04-2022	Continue
	21-04-2022	Continue
	22-04-2022	geometrical interpretation of grad
	23-04-2022	Continue
Week 6	25-04-2022	Continue
	26-04-2022	character of gradient as a point function
	27-04-2022	Continue
	28-04-2022	Continue
	29-04-2022	Divergence and curl of vector point function
	30-04-2022	Continue
Week 7	02-05-2022	Continue
	03-05-2022	characters of Div f and Curl f as point function,
	04-05-2022	Continue
	05-05-2022	Continue
	06-05-2022	Gradient
	07-05-2022	Continue
Week 8	09-05-2022	Continue
	10-05-2022	divergence and curl of sums and product and their related vector identities
	11-05-2022	Continue
	12-05-2022	Continue
	13-05-2022	Continue
	14-05-2022	Laplacian operator
Week 9	16-05-2022	Continue

	17-05-2022	Continue
	18-05-2022	Test
	19-05-2022	Orthogonal curvilinear coordinates
	20-05-2022	Continue
	21-05-2022	Continue
Week 10	23-05-2022	Continue
	24-05-2022	Conditions for orthogonality fundamental triad of mutually orthogonal unit vectors
	25-05-2022	Continue
	26-05-2022	Continue
	27-05-2022	Gradient
	28-05-2022	Continue
Week 11	30-05-2022	Continue
	31-05-2022	Divergence
	01-06-2022	Continue
	02-06-2022	Continue
	03-06-2022	Curl and Laplacian operators in terms of orthogonal curvilinear coordinates
	04-06-2022	Continue
Week 12	06-06-2022	Continue
	07-06-2022	Cylindrical co-ordinates and Spherical co-ordinates
	08-06-2022	Continue
	09-06-2022	Test
	10-06-2022	Vector integration
	11-06-2022	Continue
Week13	13-06-2022	Continue
	14-06-2022	Line integral
	16-06-2022	Continue
	17-06-2022	Continue
	18-06-2022	Surface integral
Week 14	20-06-2022	Continue
	21-06-2022	Continue
	22-06-2022	Volume integral
	23-06-2022	Continue
	24-06-2022	Continue
	25-06-2022	Theorems of Gauss
Week 15	27-06-2022	Continue
	28-06-2022	Continue
	29-06-2022	Green & Stokes and problems based on these theorms
	30-06-2022	Continue
	01-07-2022	Continue
	02-07-2022	Test
Week 16	04-07-2022	Test
	05-07-2022	Revision
	06-07-2022	Revision
	07-07-2022	Revision
	08-07-2022	Revision
	09-07-2022	Revision

Lesson Plan (2021-22)

Name of the Assistant/Associate Professor: Dr. Ritu

Class and Section: B.Sc.2nd

Paper: Sequences & Series

Semester: 4th

Week	Date	Topics
Week 1	21-03-2022	Sets , some definition related to sets.
	22-03-2022	Least upper bound and some theorem based on supremum of set, greatest lower
	23-03-2022	Completeness axiom and archimedean property of reals
	24-03-2022	Examples based on supremum ,infimum and archimedean property
	25-03-2022	Problem discussion
	26-03-2022	neighbourhood of a point &its example ,deleted neighbourhood and theorem based
Week 2	28-03-2022	Interior point of a set and its example ,open set and its example ,some theorem on
	29-03-2022	some theorem on open set ,closed set and its example
	30-03-2022	Test on completeness axiom ,archimedean property ,open sets
	31-03-2022	some theorem on closed sets and examples
	01-04-2022	Problem discussion
	02-04-2022	Limit point of a set and closure of a set with examples on limit point and closure of a
Week 3	04-04-2022	Some important theorem on limit point
	05-04-2022	Some Important theorem on closure of a set
	06-04-2022	Examples based on limit point,closure of a set and problem discussion
	07-04-2022	Compact set,cover and open cover,Heine borel property,converse of heine borel
	08-04-2022	examples based on compact set and discussion of exercise
	09-04-2022	Test on limit point,closure of set ,compact set cover and open cover
Week 4	11-04-2022	Sequence,representation of sequence,method to describe a sequence,range of a
	12-04-2022	Sometheorem on convergent sequence,divergent sequence and oscillatory sequence
	13-04-2022	null sequence and theorem on null sequence and example based on sequence
	14-04-2022	problem discussion
	15-04-2022	Some basic theorem on limits
	16-04-2022	Some basic theorem on limits and cauchy's theorem on limits
Week 5	18-04-2022	Cauchy's second theorem on limits and example based on theorem of limit
	19-04-2022	Examples based on theorem on limit and problem discussion
	20-04-2022	Introduction to monotonic sequence and theorem based on monotonic sequence,nested
	21-04-2022	Examples based on monotonic sequence and discussion over exercise based on
	22-04-2022	Test based on cauchy's first and second theorem on limit
	23-04-2022	Limit point and its example ,theorem on limit point,Bolzano weistrass theorem and
Week 6	25-04-2022	Cauchy's general principle of convergence, examples based on cauchy's general
	26-04-2022	Subsequence and theorem based on subsequence
	27-04-2022	Infinite series &its example, convergence and divergence of an infinite series and
	28-04-2022	Cauchy's general principle of convergence, convergence and divergence of geometric
	29-04-2022	Comparison tests
	30-04-2022	p-Series test and examples based on comparison test
Week 7	02-05-2022	Problem discussion
	03-05-2022	Test on sequence
	04-05-2022	D'alembert's ratio test and examples based on ratio test
	05-05-2022	Cauchy's root test and its example
	06-05-2022	problem discussion on ratio and root test
	07-05-2022	Rabbe's and logarithmic test
Week 8	09-05-2022	Examples based on rabbe's and logarithmic test
	10-05-2022	De morgan's and bertrand's test and its example
	11-05-2022	problem discussion
	12-05-2022	Gauss test and its example
	13-05-2022	Cauchy's integral test and its example
	14-05-2022	Problem discussion
Week 9	16-05-2022	Cauchy's condensation test and its example

	17-05-2022	problem discussion
	18-05-2022	test on infinite series
	19-05-2022	Alternating series and its example,Leibnitz test , and examples based on leibnitz test
	20-05-2022	Test on root ,ratio rabbe's and logarthmic test
	21-05-2022	Absolute and conditional convergence and theorem based on absolute and
Week 10	23-05-2022	problem discussion on alternating series
	24-05-2022	test on cauchy's integral and condensation test
	25-05-2022	abel's lemma and abel's test and example based on abel's lemma and abel's test
	26-05-2022	Dirchilet's test and its example
	27-05-2022	Problem discussion on abel's lemma , abel' s test , dirchilet's test
	28-05-2022	Insertion and removal of paranthesis,Removal of paranthesis and its example
Week 11	30-05-2022	Riemann's rearrangement theorem
	31-05-2022	Test on alternating series
	01-06-2022	Examples based on riemann's rearrangement theorem
	02-06-2022	problems discussion
	03-06-2022	Multiplication of series and its example
	04-06-2022	Cauchy's theorem
Week 12	06-06-2022	mertin's theorem
	07-06-2022	Discussionon cauchy's and mertin's theorem
	08-06-2022	Cesaro's theorem and abel's theorem and examples based on theorem
	09-06-2022	problem discussion
	10-06-2022	Infinte product definition,sequence of partial product,convergence of an infinite
	11-06-2022	General principle of convergence of an infinte product, some theorem for proving
Week13	13-06-2022	Some theorem for proving the convergence of infinite products
	14-06-2022	Some theorem for proving the convergence of infinite products
	16-06-2022	Absolute convergence of an infinte product
	17-06-2022	examples based on convergence of infinte product
	18-06-2022	examples based on convergence of infinte product
Week 14	20-06-2022	problem dicussion
	21-06-2022	test on arbitrary series
	22-06-2022	test on infinite products
	23-06-2022	revision of unit-1
	24-06-2022	test on unit-1
	25-06-2022	presentation by the students on the board
Week 15	27-06-2022	revisionof unit-2
	28-06-2022	test on unit-2
	29-06-2022	seminar on infinite series
	30-06-2022	revisionof unit-3 and unit-4
	01-07-2022	presentation by the students on the board
	02-07-2022	test on unit-3 and unit-4
Week 16	04-07-2022	test on the whole syllabus
	05-07-2022	Revision
	06-07-2022	Revision
	07-07-2022	Revision
	08-07-2022	Revision
	09-07-2022	Revision

Lesson Plan (2021-22)

Name of the Assistant/Associate Professor : Dr. Ritu

Class and Section: B.Sc. 3rd

Paper: Dynamics

Semester: 6th

Week	Date	Topics
Week 1	21-03-2022	Velocity and acceleration along radial
	22-03-2022	Continue
	23-03-2022	Continue
	24-03-2022	Continue
	25-03-2022	Velocity and acceleration along transverse
	26-03-2022	Continue
Week 2	28-03-2022	Continue
	29-03-2022	Continue
	30-03-2022	Continue
	31-03-2022	Velocity and acceleration along tangential
	01-04-2022	Continue
	02-04-2022	Continue
Week 3	04-04-2022	Continue
	05-04-2022	Velocity and acceleration along normal directions
	06-04-2022	Continue
	07-04-2022	Continue
	08-04-2022	Continue
	09-04-2022	Relative velocity and acceleration.
Week 4	11-04-2022	Continue
	12-04-2022	Continue
	13-04-2022	Continue
	14-04-2022	Simple harmonic motion
	15-04-2022	Continue
	16-04-2022	Continue
Week 5	18-04-2022	Elastic strings
	19-04-2022	Continue
	20-04-2022	Continue
	21-04-2022	Test
	22-04-2022	Mass, Momentum and Force
	23-04-2022	Continue
Week 6	25-04-2022	Continue
	26-04-2022	Newton's laws of motion
	27-04-2022	Continue
	28-04-2022	Continue
	29-04-2022	Work, Power and Energy
	30-04-2022	Continue
Week 7	02-05-2022	Continue
	03-05-2022	Continue
	04-05-2022	Definitions of Conservative forces and Impulsive forces.
	05-05-2022	Continue
	06-05-2022	Continue
	07-05-2022	Continue
Week 8	09-05-2022	Continue
	10-05-2022	Test
	11-05-2022	Motion on smooth and rough plane curves
	12-05-2022	Continue
	13-05-2022	Continue
	14-05-2022	Continue
Week 9	16-05-2022	Projectile motion of a particle in a plane

	17-05-2022	Continue
	18-05-2022	Continue
	19-05-2022	Continue
	20-05-2022	Continue
	21-05-2022	Continue
Week 10	23-05-2022	Vector angular velocity.
	24-05-2022	Continue
	25-05-2022	Continue
	26-05-2022	Continue
	27-05-2022	Continue
	28-05-2022	Continue
Week 11	30-05-2022	Test
	31-05-2022	General motion of a rigid body
	01-06-2022	Continue
	02-06-2022	Continue
	03-06-2022	Continue
	04-06-2022	Central Orbits
Week 12	06-06-2022	Continue
	07-06-2022	Continue
	08-06-2022	Continue
	09-06-2022	Continue
	10-06-2022	Kepler laws of motion
	11-06-2022	Continue
Week13	13-06-2022	Continue
	14-06-2022	Continue
	16-06-2022	Motion of a particle in three dimensions
	17-06-2022	Continue
	18-06-2022	Continue
Week 14	20-06-2022	Continue
	21-06-2022	Continue
	22-06-2022	Acceleration in terms of different co-ordinate systems
	23-06-2022	Continue
	24-06-2022	Continue
	25-06-2022	Continue
Week 15	27-06-2022	Continue
	28-06-2022	Test
	29-06-2022	Assignment
	30-06-2022	Assignment
	01-07-2022	Revision
	02-07-2022	Revision
Week 16	04-07-2022	Revision
	05-07-2022	Revision
	06-07-2022	Revision
	07-07-2022	Revision
	08-07-2022	Revision
	09-07-2022	Revision